

IN THE ELECTRICAL WORLD.

—The electric light of 20,000,000 candle-power in the lighthouse at Hantholm, coast of Jutland, said to be the most powerful light in the world, is now lighted for service.

—Electricity derives its name from the Greek word for amber, electron, because Thales, about 600 B. C., discovered that amber, when rubbed, attracts light and dry bodies, and in the twelfth century the scientific priests of Etruria drew lightning from the clouds with iron rods.

—The city of Appleton, Wis., is to be lighted by electricity. In this there is nothing remarkable, but the reason given for the resolution of the city council on the adoption of the electric light is an entirely novel one—being that better light than gas is required from the fact that at present so many women are insulted nightly in the streets.

—An account of an interesting balloon ascension experiment is told by a traveler who has recently returned from Thorn, Prussia. The balloon was 13x15 metres, and required 1,000 metres of gas to fill it. The car was connected by telephone with a near-by fortress. The apparatus worked splendidly both ways, and the voice of the commandant of the garrison could be distinctly heard at a height of 600 metres.

—In view of the fact that the statistics on the use of the telegraph during the year 1890 in the various European countries will shortly be published, it is interesting to note that the number of telegrams for every 100 inhabitants during 1889 is as follows: Great Britain, 163; France, 88; Germany, 45; Italy, 26; Austria, 20; Hungary, 19; Russia, 9. For 1888 the figures are: Great Britain, 140; France, 80; Germany, 42; Italy, 30; Austria, 22; Hungary, 19; Russia, 9.

—The cutting of veneers is now done by electricity. The veneering machine, instead of cutting or shaving around the entire circumference of the log, as usual, takes a thin slice from the flat side of it. The logs are of any diameter and are cut into lengths of ten feet. The veneering cutting knife is fixed between two parallel shafts and the log is carried up and down in front of it with a circular motion by revolving cranks and is fed against the knife by a ratchet and pawl in the ordinary manner.

—In the United States 185 cities have 287 electric lines. Boston has 312 electric motor cars; St. Louis, 207; Rochester, 200; Pittsburgh, 170; Cleveland, 162; Minneapolis, 110; St. Paul, 88; Cincinnati, 77; Nashville, 51; Davenport, Ia., 60; Milwaukee, 55; Richmond, 45; Utica, 30; Scranton, Pa., 20; Albany, 10; Syracuse, 10, etc. The systems represented are all single trolley overhead. Four to ten storage battery cars are run on the Fourth avenue line, New York. Two storage battery cars are run on the Beverly & Danvers road in this State, and six in Dubuque, Ia.

Not many months ago a new system of sending pictures by telegraph was described in the electric journals. The principle of this process was the division of the picture to be sent into squares, each square being numbered to correspond with a paper similarly prepared and to be drawn upon according to the direction sent from the transmitting station by the number communicated. While applicable to pictures having only straight lines, this process was not found feasible for the transmission of portraits. For this purpose an improved method has been suggested, by which it is claimed that an exact reproduction in chiaroscuro of the original photograph can be electrically transmitted to the receiving station.

—An industry which promises to attain very considerable dimensions is the manufacture of the electric blower, which, started not many months ago, is now rapidly growing. This apparatus was primarily designed for use in dynamo and engine room of steamers and other places where the space is limited and where at the same time rapid and thorough ventilation is absolutely necessary. Owing to the extreme compactness of the blower, it may be placed in the smallest room, and proves a most powerful exhaust. It was speedily seen that such a device was invaluable on warships, and its installation on the Baltimore was soon followed by its adoption on nearly all the modern warships of the United States navy.

ALASKAN EXPLORATION.

An Immense Territory Which Had Never Been Gone Over.

To the army more than to any other single agent do we owe the transformation of the "Great American Desert" into the "Great Empire of the West," and it is quite natural, therefore, that the army should be looked to to explore the only part of our domain which remains unknown and unexplored. During the quarter of a century that has passed since the purchase of Alaska, the government has done nothing to ascertain what it had acquired. The country seems a bare, snow-covered and inhospitable Arctic province of value only because of its fur trade. This impression has been proved untrue, and we are beginning to realize that unwittingly we had made a very good bargain and got a valuable possession. The mineral, lumber and fishing industries of Alaska are taking rank as the richest in the world; and yet it is only with the little strip of coast lying to the south-east of Mount St. Elias that we are as yet acquainted. The territory is nearly as large as all of the United States lying east of the Mississippi river, and of the resources and capabilities of the territory as a whole we know next to nothing.

For these reasons the Secretary of War has approved a bill making an appropriation to send an exploring expedition into the interior of Alaska, and has strongly indorsed the measure in his annual report. The amount required is estimated at \$100,000, and if the objects of the expedition can be accomplished with this sum, or with several times as much, it will be money well invested. The work is needed to be done, and the wonder is that it has not been attempted before this.—Army and Navy Register.

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The improvements consist of one of the largest and best brick dwellings in the county, containing large hall, 3 large rooms and a basement, brick kitchen, servants room, office, and very superior ice house, large barns and stables, valuable orchard and small fruits and berries, good garden, water from a never failing spring, brought to dwelling, barn and yard. This property is within about 40 minutes' drive from Salem. One of the most flourishing places in Southwest Virginia. Price \$25,000, half cash, balance in one and two years. The property can be divided if preferred. Apply to

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For further information, maps, pamphlets, etc., descriptive of the great agricultural and mineral resources of the State apply to the agents of the

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One of the valuable industries secured by the Roanoke Development Company is the Norwich Lock Manufacturing Company, manufacturers of all Shell Hardware for Builders' purposes. Their goods are known throughout the entire country to be first-class. It is therefore important that all industrial concerns using this class of goods should know that they can locate in Roanoke to great advantage. This is particularly applicable to Door, Sash and Blind Manufacturers, as well as to many others. For particulars address

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Another of the valuable industries secured by the Roanoke Development Company is the Virginia Blanket Mills, manufacturers of woolen blankets of all grades, spinners of yarn, and scourers and sorters of wool. These mills will secure the pick of the fleeces of Southwest Virginia, where the sheep-raising industry is developing more rapidly and more profitably than in any other part of the United States. Manufacturers of fine cloths should seize the opportunity to locate in the midst of a wool-raising country and close to their yarn supplies. For further information address,

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Among the industries located by the Roanoke Development Company is the Duval Engine Company, manufacturers of steam engines and boilers. About 30,000 already in use in the South. This company is equipped to furnish castings for machinery, and make repairs to all classes of machinery, boilers, etc., etc. It will make a great change through this section of the South, shortening the haul on all its manufactures hundreds of miles over Northern competitors, besides furnishing a superior production. For particulars address

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COME SOUTH, YOUNG MAN?

President Harrison, on his tour through the South, after having seen the wonderful growth of Lynchburg, Bedford City, Roanoke, Salem, Radford, Pulaski, Wytheville and Abingdon and the industrial development in progress along the line of the Norfolk and Western railroad, and viewed the country of southwest Virginia, said in his speech to the people at Bristol, Va.

"My Fellow Citizens: I have found not only pleasure, but instruction in riding to-day through the portion of the State of Virginia that is feeling in a very striking way the impulse of new development. It is extremely gratifying to notice that these hidden sources of wealth which were so long unobserved and so long unused are now being found, and that these regions, once so retired, occupied by pastoral people, having difficult access to the center of population, are now being rapidly transformed into busy manufacturing and commercial centers. In the early settlement of this country emigrants poured over the Alleghenies and Blue Ridge like waters over an obstructing ledge, seeking the fertile and attractive farm regions of the great West. They passed unobserved these marvelous hidden stores of wealth which are now being brought into use.

"Having filled these great basins of the West, they are now turning back to Virginia and West Virginia and Tennessee to bring about the full development and production for which time is ripe and which will surprise the world. It has not been long since every implement of iron, domestic, agricultural and mechanical, was made for you in other States. The iron point of the wooden mold board plow, with which the early farmers here turned the soil, came from distant States. But now Virginia and Tennessee are stirring their energies to participate in a large degree in mechanical productions and in the great awakening of American commerce and American influence which will lift the nation to a place among the nations of the world never before attained.

"What is to hinder us when we have secured the markets of our own states that we shall reach out and enter into successful competition in the markets of other parts of the world? I say what is to hinder this people, possessing by the providence of God, all the elements of material wealth; endowed with a genius and energy unsurpassed among the nations of the earth, shall again have on the great seas a merchant marine flying the flag of the common country and carrying its commerce into every sea and upholding its honor in every port?

"I am glad to-day to stand for this moment among you and to express my sympathy with any and every interest that tends to develop you as a people. I am glad to stand with you on one common platform of respect for the constitution; differing as some of us may do in our opinions as to what the law should be and how it should be applied; having in view one common devotion of obedience to the law as the majority of our people, by their own representatives, make it.

"I shall carry away from here a renewed impulse to public duty; a new inspiration as a citizen, and that, too, of a country whose greatness is only dawning.

"And now let me express to you the pleasure I shall have in every good that can come to you as a community, and to each of you as individuals. May peace, prosperity and social order dwell in all your families, and the fear and love of God in every home."

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A Construction Company has been organized to build the Virginia and Kentucky Railroad from Madison, N. C., to Wytheville, and from thence to

The Great Flat Top Coal Fields.

Expect to get Cape Fear and Yadkin Valley Railroad constructed, distance of ten miles, to Wytheville, while the Parkersburg, Little Kanawha and Virginia Railroad has decided to lay down its line via Wytheville for a Southern connection with Cape Fear and Yadkin Valley at this point, thus making Wytheville a competing railway center.

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